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- (71) Applicant (for all designated States except US): MYCOTA BIOSCIENCES INC. [CA/CA]; Suite 2550, 225, President-Kennedy West, Montreal, Quebec H2X 3Y8 (CA).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): ROEMER, Terry [CA/CA]; 4935 Connaught Avenue, Montreal, Quebec H4V 1X4 (CA). BUSSEY, Howard [CA/CA]; 325 Victoria Ave, Westmount, Quebec H3Z 2N1 (CA). DAVISON, John [CA/CA]; 4886 DeBullion, Montreal, Quebec H2T 1Z5 (CA).
- (74) Agents: DUBUC, Jean, H. et al.; Goudreau Gage Dubuc, The Stock Exchange Tower, Suite 3400, 800 Place Victoria, Montreal, Quebec H4Z 1E9 (CA).
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(54) Title: IDENTIFICATION OF CANDIDA ALBICANS ESSENTIAL FUNGAL SPECIFIC GENES AND USE THEREOF IN ANTIFUNGAL DRUG DISCOVERY

(57) Abstract: The invention relates to the identification and disruption of essential fungal specific genes isolated in the yeast pathogen *Candida albicans* namely *CaKRE5*, *CaALR1* and *CaCDC24* and to the use thereof in antifungal diagnosis and as essential antifungal targets in a fungal species for antifungal drug discovery. More specifically, the invention relates to the *CaKRE5*, *CaALR1* and *CaCDC24* genes, to their use to screen for antifungal compounds and to the drugs identified by such.

## INTERNATIONAL SEARCH REPORT

International Application No

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A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 C12Q1/68 C07K14/40

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07K C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

BIOSIS, MEDLINE, CHEM ABS Data, EMBASE, EPO-Internal, WPI Data, PAJ, EMBL

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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Y	US 5 194 600 A (BOONE CHARLES ET AL) 16 March 1993 (1993-03-16)  the whole document	1,2,5, 8-10,13, 16-18

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
 NL - 2280 HV Rijswijk  
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
 Fax: (+31-70) 340-3016

Authorized officer

Hagenmaier, S

## INTERNATIONAL SEARCH REPORT

International Application No.

PCT/CA 00/00533

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	MEADEN P ET AL: "THE YEAST KRE5 GENE ENCODES A PROBABLE ENDOPLASMIC RETICULUM PROTEIN REQUIRED FOR 1-6-BETA-D GLUCAN SYNTHESIS AND NORMAL CELL GROWTH" MOLECULAR AND CELLULAR BIOLOGY, vol. 10, no. 6, 1990, pages 3013-3019, XP000971270 ISSN: 0270-7306 cited in the application the whole document ---	1,2,5, 8-10,13, 16-18
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Inter national Application No

PCT/CA 00/00533

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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International Application No

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